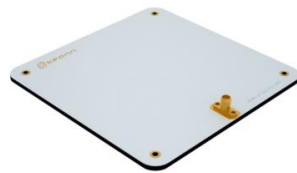


Product overview

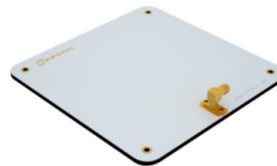
Advantenna-p11 is a compact RFID UHF Antenna, with a very thin form factor, circular polarization and a radiation pattern characterized by a wide beam in all directions in one hemisphere.

This radiation pattern and its thin form factor make this antenna ideal for many RFID applications such as smart shelves, smart displays, smart panels and smart tables or other surfaces.

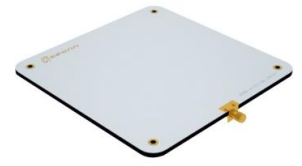
Connector options



Flange straight

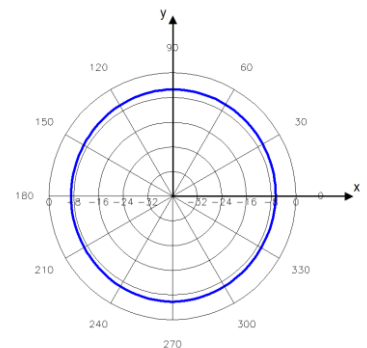
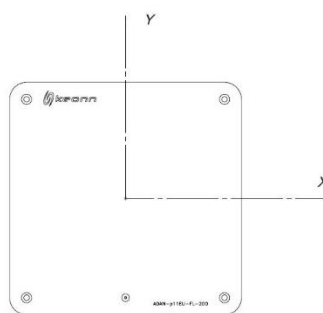
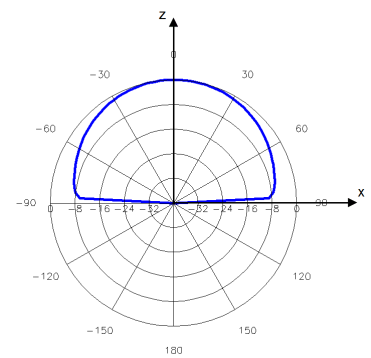
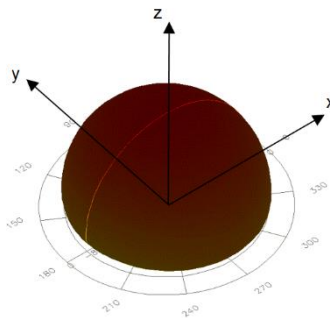


Flange right angle



Edge mount

Antenna radiation pattern



Benefits:

- Very thin form factor (15 mm with flange connector)
- Good performance
- Cost effective

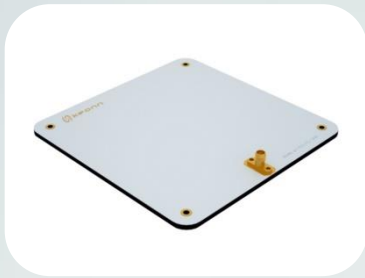
Applications:

- Smart shelves
- Smart panels
- Smart tables
- Smart surfaces in general



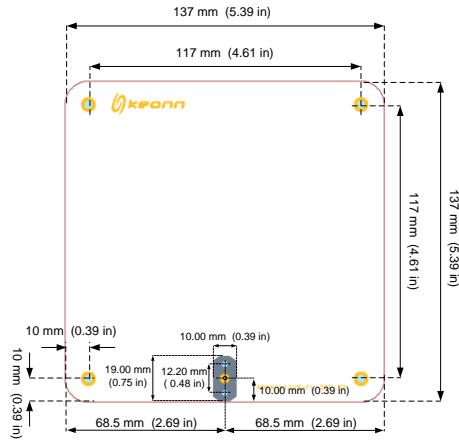
Specifications

| | |
|--------------------------------|--|
| Operating Frequency EU Version | 865 - 868 MHz (ETSI EN 302 208) |
| Operating Frequency US Version | 902 - 928 MHz (FCC part 15) |
| Operating Detection distance | Up to 3 m |
| Radiation pattern | Wide beam in both directions in one hemisphere |
| Gain | 3.2 dBi (EU version), 3.3 dBi (US version) |
| Beam width | 100° / 100° |
| Polarization | Circular - RHCP (Right Hand Circular Polarization) |
| Input Impedance | 50 Ω |
| Connector | SMA or MCX Flange straight, flange right angle or edge mount |
| IP rating | IP65, IP68 Dust resistant, even in high concentration Resistant to normal water jets for at least 3 minutes Immersion resistant (up to 1m for up to 30 minutes) |
| Temperature range | -20°C to +80°C |
| Size excluding connector | 137 mm x 137 mm x 3.3 mm 5.4 inches x 5.4 inches x 0.13 inches |
| Size with flange connector | 137 mm x 137 mm x 15 mm 5.4 inches x 5.4 inches x 0.6 inches |
| Size with edge mount connector | 137 mm x 137 mm x 8 mm 5.4 inches x 5.4 inches x 0.3 inches |
| Antenna weight | 115 g |



Mechanical specifications

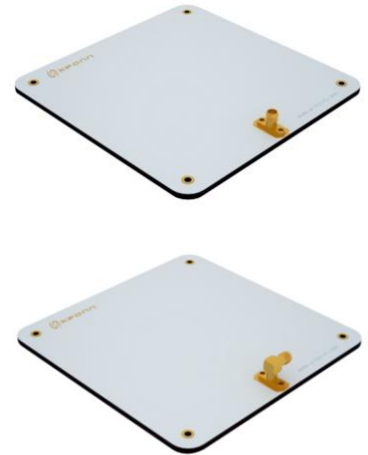
With flange straight or flange right angle connector



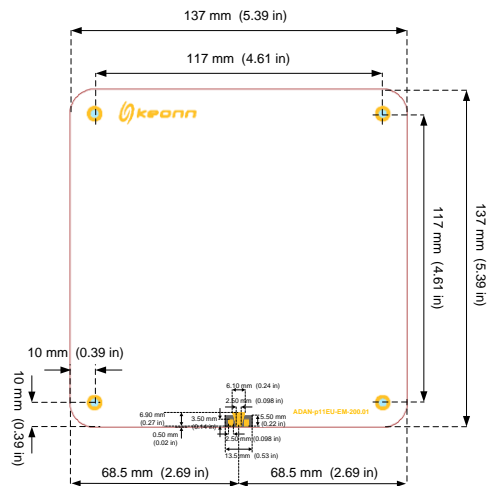
View from the side that radiates

Antenna Board Thickness = 3.3 mm (0.130 in)

Holes \varnothing = 3.3 mm (0.13 in)



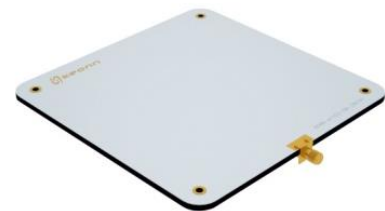
With edge mount connector



View from the side that radiates

Antenna Board Thickness = 3.3 mm (0.130 in)

Holes \varnothing = 3.3 mm (0.13 in)





Product codes for ordering

| ADAN-p11 | FF | - | CS | COR | CT | - | mmm | |
|----------|----|---|----|-----|-----|---|-----|--|
| | | | | | | | | FF = frequency band |
| | EU | | | | | | | 865,6 MHz - 867,6 MHz |
| | US | | | | | | | 902,0 MHz - 928,0 Mhz |
| | | | | | | | | Connector shape |
| | | | EM | | | | | Edge mount |
| | | | FL | | | | | Flange straight |
| | | | FR | | | | | Flange right angle |
| | | | | | | | | Connector orientation (only for right angle SMA connector) |
| | | | | | | | | Default orientation |
| | | | | 90 | | | | Rotated 90° counterclockwise |
| | | | | 180 | | | | Rotated 180° counterclockwise |
| | | | | 270 | | | | Rotated 270° counterclockwise |
| | | | | | | | | Connector type |
| | | | | | SMA | | | SMA connector |
| | | | | | MCX | | | MCX connector (only available in edge mount and flange straight) |
| | | | | | | | | Model |
| | | | | | | | 200 | Model number |

Examples:

- **ADAN-p11EU-EMSMA-200:**
 - Advantenna-**p11**
 - Frequency band : 865,6 MHz - 867,6 MHz
 - **Edge mount** connector
 - **SMA** connector
 - Model **200**

- **ADAN-p11US-FRSMA-200:**
 - Advantenna-**p11**
 - Frequency band : 902,0 MHz - 928,0 Mhz
 - **Flange right angle** connector
 - Default connector orientation
 - **SMA** connector
 - Model **200**

- **ADAN-p11EU-FR270SMA-200:**
 - Advantenna-**p11**
 - Frequency band : 865,6 MHz - 867,6 MHz
 - **Flange right angle** connector
 - Connector rotated 270° counterclockwise
 - **SMA** connector
 - Model **200**